

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 01/01/2011 to 09/30/2011

Reporting period: Jan 11 - Sept 11

Number of vehicle days driven: 2,438

All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi) ¹	100
Overall DC electrical energy consumption (DC Wh/mi) ²	67
Total number of trips	11,142
Total distance traveled (mi)	137,741

Trips in Charge Depleting (CD) mode³

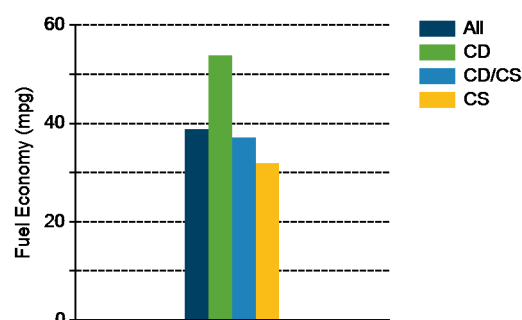
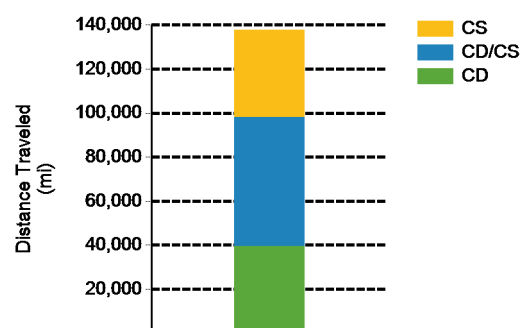
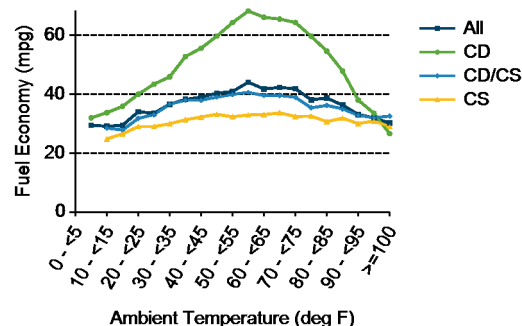
Gasoline fuel economy (mpg)	54
DC electrical energy consumption (DC Wh/mi) ⁴	162
Number of trips	6,458
Percent of trips city highway	84% 16%
Distance traveled (mi)	39,650
Percent of total distance traveled	29%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	51
Number of trips	2,220
Percent of trips city highway	38% 62%
Distance traveled (mi)	58,472
Percent of total distance traveled	42%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	2,462
Percent of trips city highway	64% 36%
Distance traveled (mi)	39,619
Percent of total distance traveled	29%

Gasoline Fuel Economy By Trip Type

Distance Traveled By Trip Type

Fuel Economy By Ambient Temperature


Notes: 1 - 7. Please see <http://avt.inl.gov/pdf/phev/fordreportnotes.pdf> for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	50	59
DC electrical energy consumption (DC Wh/mi)	159	165
Percent of miles with internal combustion engine off	39%	11%
Average trip driving intensity (Wh/mi)	271	308
Average trip distance (mi)	4	19

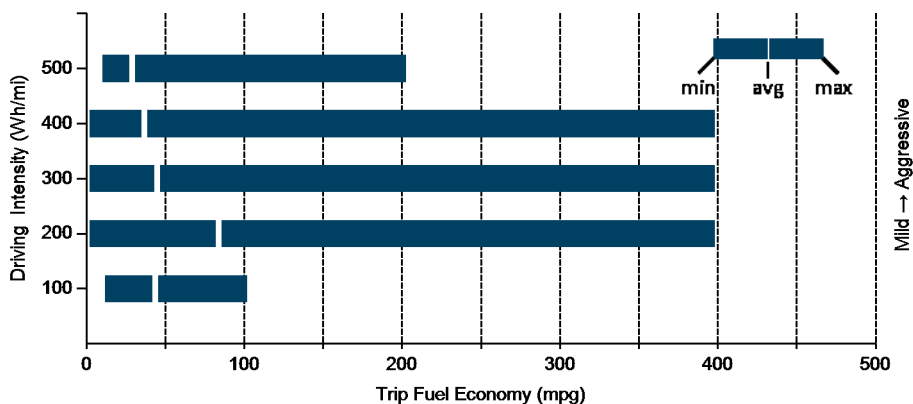
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	41	37
DC electrical energy consumption (DC Wh/mi)	66	49
Percent of miles with internal combustion engine off	29%	5%
Average trip driving intensity (Wh/mi)	280	326
Average trip distance (mi)	9	37

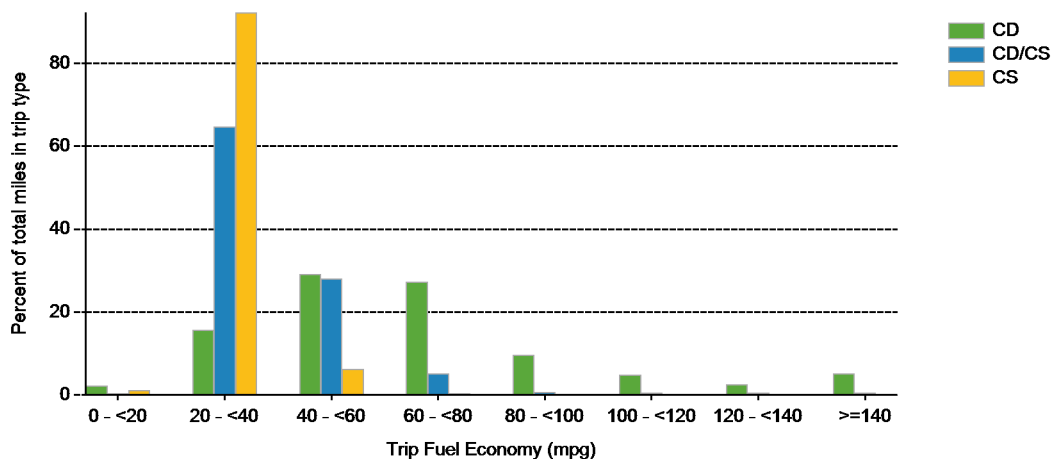
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	30	32
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	270	322
Average trip distance (mi)	4	37

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



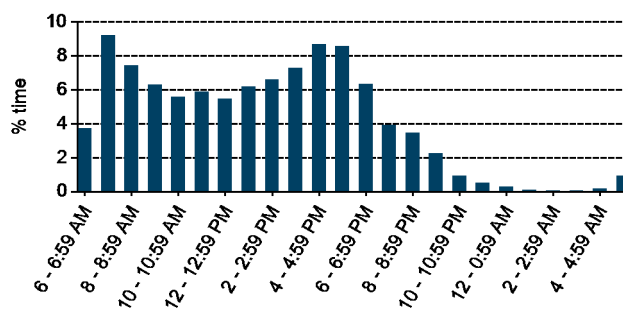
Trip Fuel Economy Distribution By Trip Type



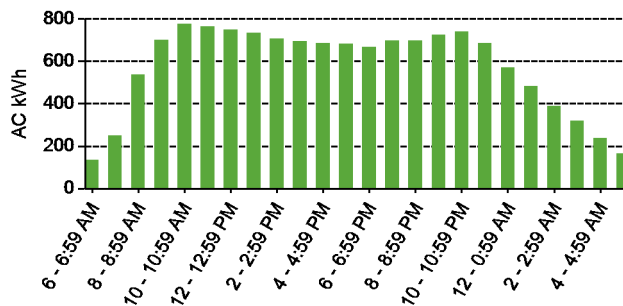
Plug-in charging

Average number of charging events per vehicle per month when driven	34
Average number of charging events per vehicle per day when driven	2.4
Average distance driven between charging events (mi)	23.8
Average number of trips between charging events	1.9
Average time plugged in per charging event (hr)	6.9
Average time charging per charging event (hr)	1.7
Average energy per charging event (AC kWh)	2.4
Average charging energy per vehicle per month (AC kWh)	82.2
Total number of charging events	5,781
Total charging energy (AC kWh)	13,816

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

